

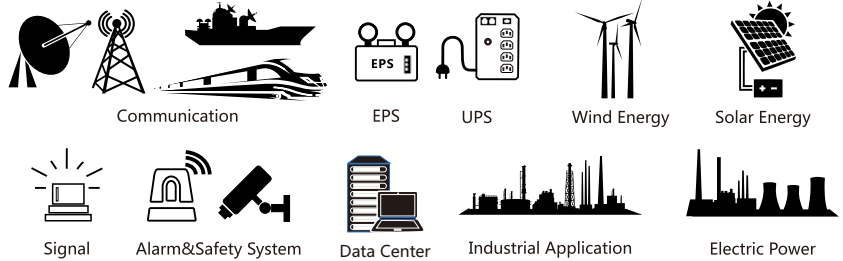
TN2-300B [2V 300Ah]



Product Features

General Purpose (AGM)		10~12 years of design life@25°C	
100% Model Coverage Both Cycle & Float Application	↑98% Capacity Retention High Purity Electrolyte	↑20% Charge Acceptance Special Negative Additive	↓50% Grid Corrosion Rare-earth patent alloy

Product Applications



Physical Specifications

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
TN2-300B	Length	Width	Height	Total Height	17.8/39.2	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	170/6.69	150/5.91	330/13.0	341.5/13.4			

Product Specifications

Nominal Voltage	Rated Capacity@25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
2V	318Ah 20hr Rate (1.80V/cell) 300Ah 10hr Rate (1.80V/cell) 257Ah 5hr Rate (1.75V/cell) 231Ah 3hr Rate (1.70V/cell)	0.6mΩ@25°C/77°F	1860A (5s)	Discharge:-15~50°C (5~122°F) Charge:0~40°C (32~104°F) Storage:-15~40°C (5~104°F) Optimum:25±2°C (77±4°F)

Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	187	153	94.7	72.6	58.6	49.3	43.4	34.5	29.4	15.7
1.83V/cell	204	158	96.8	73.8	59.4	50.1	43.8	34.9	29.8	15.8
1.80V/cell	221	162	99.2	75.0	60.3	50.8	44.3	35.2	30.0	15.9
1.75V/cell	236	167	101	76.0	60.9	51.3	44.8	35.5	30.6	16.4
1.70V/cell	247	172	103	76.9	61.4	51.7	45.1	35.8	30.9	16.5

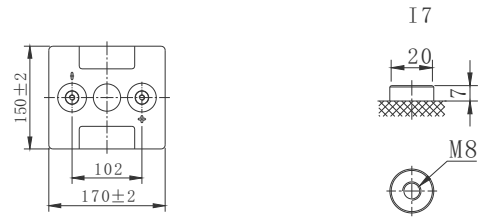
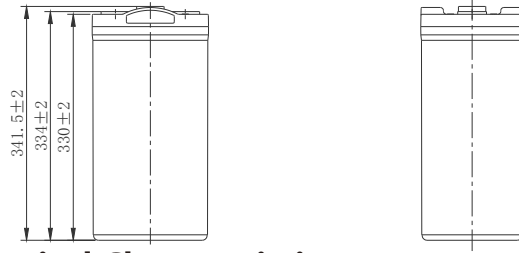
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	355	295	184	142	116	98.6	86.7	69.4	59.2	31.5
1.83V/cell	383	302	188	144	117	100	87.6	69.9	59.7	31.7
1.80V/cell	412	308	191	146	119	101	88.4	70.4	60.0	31.8
1.75V/cell	432	314	194	146	119	102	89.1	71.0	61.2	32.8
1.70V/cell	444	316	196	146	120	102	89.6	71.4	61.7	33.0

TN2-300B [2V 300Ah]

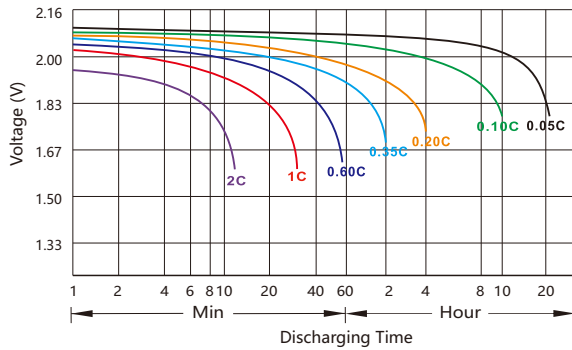


Battery Dimensions(mm)

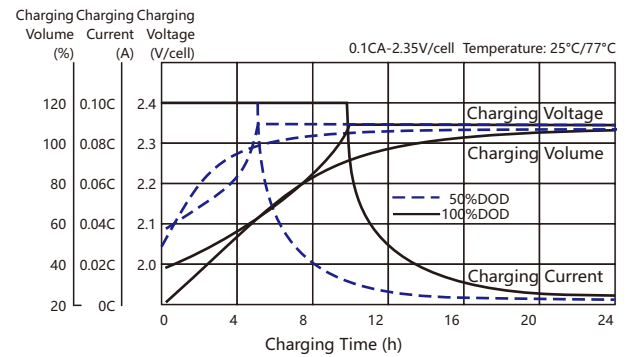


Electrical Characteristics

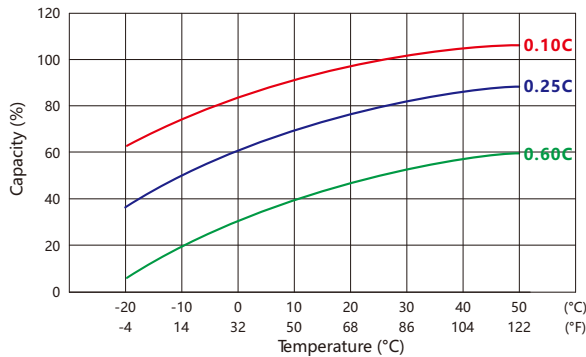
Discharging Characteristics(25°C)



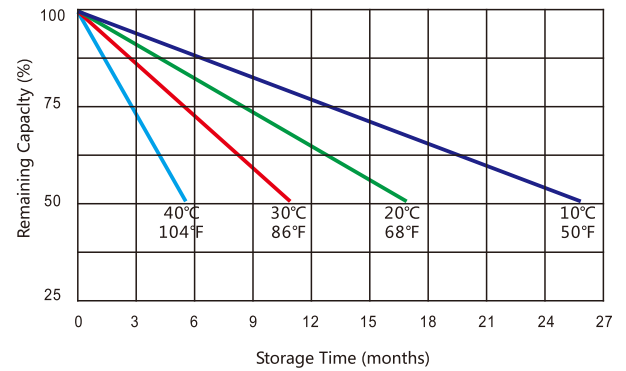
Charging Characteristics(25°C)



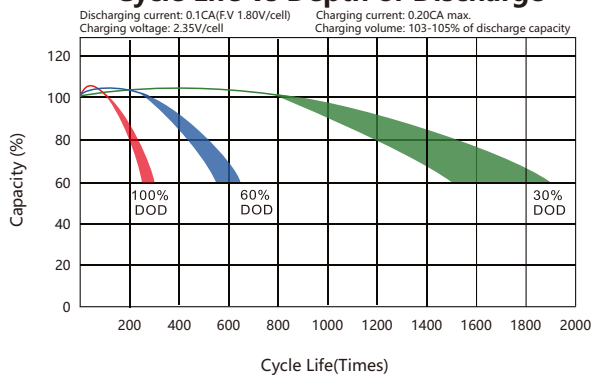
Capacity vs Temperature



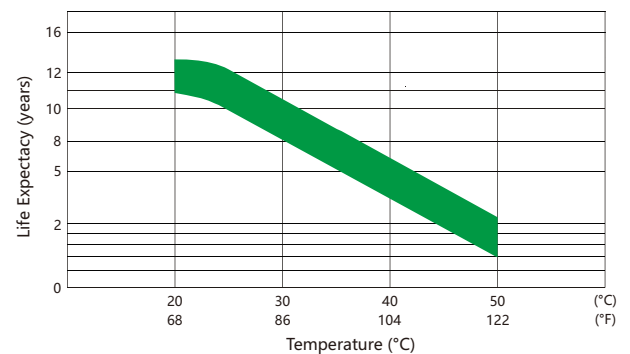
Self-discharge vs Time



Cycle Life vs Depth of Discharge



Floating Life vs Temperature



Usage and Maintenance

Charge Current	Equalization Charge	Float Charge
Limited current: $\leq 0.2 C_{10}A$	Constant Voltage: 2.35~2.4V@25°C(77°F) Temp.Coefficient:-4mV/°C	Constant Voltage: 2.23~2.27V@25°C(77°F) Temp.Coefficient:-3mV/°C